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| <b>UTILITY PATENT APPLICATION TRANSMITTAL</b><br>(Only for new nonprovisional applications under 37 CFR § 1.53(h)) | Attorney Docket No                       |   | 1503.011000E          |
|  | First Inventor or Application Identifier |   | Michael W. Pantoliano |
|  | Title                                    | Microplate Thermal Shift Assay Apparatus for Ligand Development and Multi-Variable Protein Chemistry Optimization |                       |
|  | Express Mail Label No.                   |   |                       |

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| <b>APPLICATION ELEMENTS</b><br>See MPEP chapter 600 concerning utility patent application contents.  |  | ADDRESS TO: Assistant Commissioner for Patents<br>Box Patent Application<br>Washington, DC 20231   |  |
| 1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g., PTO/SB/17)<br>(Submit an original, and a duplicate for fee processing)  |  | 6. <input type="checkbox"/> Microfiche Computer Program (Appendix)   |  |
| 2. <input checked="" type="checkbox"/> Specification [Total Pages <u>110</u> ]<br>(preferred arrangement set forth below) <ul style="list-style-type: none"><li>- Descriptive title of the invention</li><li>- Cross References to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to Microfiche Appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul>          |  | 7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) <ul style="list-style-type: none"><li>a. <input type="checkbox"/> Computer Readable Copy</li><li>b. <input type="checkbox"/> Paper Copy (identical to computer copy)</li><li>c. <input type="checkbox"/> Statement verifying identity of above copies</li></ul>   |  |
| 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>42</u> ]  |  | <b>ACCOMPANYING APPLICATION PARTS</b> <ul style="list-style-type: none"><li>8. <input type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</li><li>9. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney (when there is an assignee)</li><li>10. <input type="checkbox"/> English Translation Document (if applicable)</li><li>11. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</li><li>12. <input checked="" type="checkbox"/> Preliminary Amendment</li><li>13. <input checked="" type="checkbox"/> Two (2) Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</li><li>14. <input type="checkbox"/> *Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application, Status still proper and desired (PTO/SB-09-12)</li><li>15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</li><li>16. <input checked="" type="checkbox"/> Other: 37 C.F.R. § 1.136(a)(3) Authorization</li><li><input type="checkbox"/> Other:</li></ul> <small>*NOTE FOR ITEMS 1 &amp; 14 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28)</small> |  |
| 4. <input checked="" type="checkbox"/> Oath or Declaration [Total Pages <u>3</u> ] <ul style="list-style-type: none"><li>a. <input type="checkbox"/> Newly executed (original or copy)</li><li>b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below]<ul style="list-style-type: none"><li>i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).</li></ul></li></ul> |  |  |  |
| 5. <input checked="" type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked)<br>The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.  |  |  |  |
| 17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment.<br><input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-Part (CIP) of prior application No: 09/459,996<br>Prior application information: Examiner J. Snay Group/Art Unit: 1743   |  |  |  |

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| 18. <b>ATTORNEY ADDRESS</b>  |   |           |                |          |                |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label <u>26111</u> (Insert Customer Number or Attach bar code label here) or <input type="checkbox"/> Correspondence address below |   |           |                |          |                |
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|-------------------|---------------------------|-----------------------------------|--------|
| NAME (Print/Type) | Patrick E. Garrett        | Registration No. (Attorney/Agent) | 39,987 |
| SIGNATURE         | <i>Patrick E. Garrett</i> | Date                              | 3/9/01 |

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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March 9, 2001

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Assistant Commissioner for Patents  
Washington, D.C. 20231

**Box Patent Application**

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
(A Continuation of Appl. No. 09/459,996; Filed: December 14, 1999)  
Appl. No. To Be Assigned; Filed: March 9, 2001  
For: **Microplate Thermal Shift Assay Apparatus for Ligand Development  
and Multi-Variable Protein Chemistry Optimization**  
Inventors: Pantoliano *et al.*  
Our Ref: 1503.011000E

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office:

1. PTO Utility Patent Application Transmittal Form (PTO/SB/05);
2. A true copy of prior application number 09/459,996; Filed: December 14, 1999;  
entitled

**Microplate Thermal Shift Assay Apparatus for Ligand Development and  
Multi-Variable Protein Chemistry Optimization**

and naming as inventors:

Michael W. Pantoliano  
Roger F. Bone  
Alexander W. Rhind  
Francis R. Salemme

09/801676

Assistant Commissioner for Patents  
March 9, 2001  
Page 2

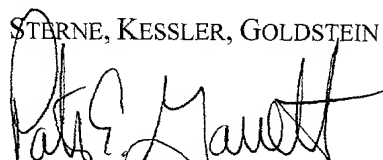
the application consisting of:

- a. A specification containing:
    - (i) 99 pages of description prior to the claims;
    - (ii) 10 pages of claims (53 claims);
    - (iii) a one (1) page abstract;
  - b. 42 sheets of drawings: (Figures 1-16, 17A-D, 18-31, 32A-E, 33-35, 36A, 36B, 37-40, 41A, 41B, 42); and
  - c. A copy of the executed Declaration, as originally filed in U.S. Appl. No. 09/459,996;
3. PTO Fee Transmittal Form PTO/SB/17;
  4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
  5. Preliminary Amendment;
  6. Application Data Sheet;
  7. Two (2) return postcards; and
  8. Our check No.            for \$760.00 to cover:  
  
\$760.00    Filing fee for patent application.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Patrick E. Garrett

Attorney for Applicants  
Registration No. 39,987